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FORM PTO-1449

MATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1700.0030003/JAG/BJD/SJE	APPLICATION NO. 10/733,582
FIRST NAMED INVENTOR	
Renner et al	

Renner et al.

FILING DATE ART UNIT
December 12, 2003 1614

XAMINER		DOCU	MENT	0.0. 17	ATENT DOCUMENTS			
NITIAL		NUMB		DATE	NAME	CLASS	SUB-CLASS	FILING DATE
MM	AA1	5,071,	651	12/10/1991	Sabara et al.	424	89	03/05/1990
	AB1	5,334,	394	08/02/1994	Kossovsky et al.	424	494	01/04/1993
	AC1	5,374,	426	12/20/1994	Sabara et al.	530	403	10/30/1989
	AD1	5,739,	026	04/14/1998	Garoff et al.	435	240.2	08/13/1992
	AE1	5,770,	380	06/23/1998	Hamilton et al.	435	7.1	09/13/1996
	AF1	5,766,	,602	06/16/1998	Xiong et al.	424	218.1	01/19/1995
	AG1	5,792,	462	08/11/1998	Johnston et al.	424	199.1	05/23/1995
	AH1	5,814,	482	09/29/1998	Dubensky, Jr. et al.	435	69.3	10/30/1996
	Al1	5,871,	747	02/16/1999	Gengoux-Sedlik et al.	424	208.1	04/28/1995
	AJ1	5,789,	245	08/04/1998	Dubensky, Jr. et al.	435	320.1	10/30/1996
$\overline{}$	AK1	6,004	,763	12/21/1999	Gengoux et al.	435	7.24	05/12/1998
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	AM1		425 082 A1	05/02/1991	Europe			Ÿ
	AN1	WO 9	2/11291 A1	07/09/1992	WIPO		7	Y
	AO1	WO 9	4/06472 A1	03/31/1994	WIPO			X
V	AP1	WO 9	4/15585 A1	07/21/1994	WIPO			Y
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	AS	1	Bachmann, N presentation Verlagsgesel	to CD8+ cytotox	ndritic cells process exogenousic T lymphocytes," Eur. J. Imri	s viral proteins a nunol. 26:2595-2	nd virus-like part 2600 (1996), VCH	icles for class I
1	AT				nagel, R. M., "The influence of I. Today 17:553-558 (1996), E			onses and virus
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	ATTY. DOCKET NO. 1700.0030003/JAG/BJD/SJE	APPLICATION NO. 10/733,582	
FORM PTO-1449	FIRST NAMED INVENTOR		
	Renner et al.		
INFORMATION DISCLOSURE STATEMENT	FILING DATE	ART UNIT	
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MM	AA2	4,722,		DATE 02/02/1988	Valenzuela et al.	CLASS 424	SUB-CLASS 88	99/19/1985
	AB2	5,698,	,424	12/16/1997	Mastico et al.	435	172.3	01/03/1995
	AC2	5,143,	,726	09/01/1992	Thornton et al.	424	88	11/20/1989
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	AM2	wo	96/30523 A2	10/03/1996	WIPO			Yes No
	AN2	wo	98/15631 A1	04/16/1998	WIPO			Yes No
	AO2	wo	99/40934 A1	08/19/1999	WIPO			Yes No
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MM 	AR	2			nagel, R. M., "Neutralizing Antiv ual Reviews Inc.	riral B Cell Res	ponses," <i>Annu. F</i>	Rev. Immunol.
	Borlsova, G., et al., "Hybrid Hepatitis B Virus Nucleocapsid Bearing an Immunodominant Region from Hepatitis B Virus Surface Antigen," J. Virol. 67:3696-3701 (1993), American Society for Microbiology							
	АТ	2	Cesareni, G. Publishers B	, "Peptide displa .V.	y on filamentous phage capsids	s," FEBS Lett. 3	3 <i>07</i> :66-70 (1992)	, Elsevier Science
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ATTY. DOCKET NO. 1700.0030003/JAG/BJD/SJE	APPLICATION NO. 10/733,582	
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	AN3	IWC	99/67293 A1	12/29/1999	WIPO			No Yes
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MM	AR	3	Clark, H. F., Free Cell Lin	<i>et al.</i> , "Comparat e (VH2) from <i>Vip</i>	tive Characterization of a learn russelli," J. Natl. Cand	C-Type Virus-Produc cer Inst. 51:645-657 (cing Cell Line (V: (1973), Oxford L	SW) and a Virus- Iniversity Press
	AS	3	Immunodefic	lency Virus Type	logical and Virological Ana 1 while Participating in T y 1998), American Society	rials of Recombinant	ected by Humar gp120 Subunit) Vaccines," <i>J</i> .
$\overline{}$	AT	3	cDNA cloning	g system for sele	isplay of biologically activiction of functional gene pi 7:69-75 (1993), Elsevier S	roducts linked to the	genetic informat	ous phages: a ion responsible
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	ATTY. DOCKET NO.	APPLICATION NO.	
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FORM PTO-1449	FIRST NAMED INVENTOR		
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	AS	4	Davis, N. L. Clone: Anal	, et al., "In Vitro ysis of a Viable	Synthesis of Infectious Deletion Mutant," Virolo	Venezuelan Equine Er gy 171:189-204 (1989	ncephalitis Virus R), Academic Press	NA from a cDNA inc.
\	AT	4	Engineered	V. F., et al., "In Filamentous P y and Molecula	nmunogenicity and Epitop hage," <i>J. Biol. Chem. 26</i> ir Biology Inc.	pe Mapping of Foreign 3:4318-4322 (1988), T	Sequences via Go he American Sock	enetically ety for
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	Renner et al.	
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	AR	<u>5</u>	Donnelly, J	. J., et al., "DNA	A Vaccines," Annu. Rev. Imn	nunol. 15:617-6	48 (April 1997), Aı	nnual Reviews Inc.	
	AS	<u>5</u>	Fehr, T., et al., "Role of Repetitive Antigen Patterns for Induction of Antibodies Against Antibodies," J. Exp. Med. 185:1785-1792 (May 1997), The Rockefeller University Press						
\downarrow	AT	5	the same p	otency to releas	and recombinant enzymatica e histamine from basophils 995), Mosby-Year Book, Inc	in patients with	active bee venom Hymenoptera alle	phospholipase A₂ has rgy," <i>J. Allergy Clin</i> .	
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мм	AR	6	Fujiwara, K. Immunoassa Biomedical I	ay for Daunomyc	reparation Method of Immun in and Adriamycin," <i>J. Immu</i>	nogen for Hydropho unol. Meth. 45:195-	bic Hapten, Enzy 203 (1981), Else	yme vier/North Holland		
	AS	<u>6</u>	Gilbert, S. C 15:1280-128	Gilbert, S. C., et al., "A protein particle vaccine containing multiple malaria epitomes," <i>Nature Biotechnol.</i> 15:1280-1284 (November 1997), Nature Publishing Group						
\ \	АТ	<u>6</u>	Greenstone, H. L., et al., "Chimeric papillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," <i>Proc. Natl. Acad. Sci. USA 95</i> :1800-1805 (February 1998), The National Academy of Sciences							
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мм	AR	2	Hahn, C. S., presentation	et al., "Infection," <i>Proc. Natl. A</i>	ous Sindbis virus transient Acad. Scl. USA 89:2679-2	t expression ve 683 (1992), Na	ctors for s tional Aca	studying antigen ademy Press	processing and
	AS	2	Presentation	Harding, C. V. and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," <i>J. Immunol.</i> 153:4925-4933 (1994), The American Association of mmunologists					
V	AT	7	Hilleman, M. 4:507-514 (N	R., "Six decaday 1998), Nat	des of vaccine developme ture Publishing Group	ent—a personal	history,"	Nature Med. Va	ccine Suppl.
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	AS	8	Iannolo, G. Mol. Biol. 2	, et al., "Modify 148:835-844 (19	ing Filamentous Phage Cap 195), Academic Press Limite	sid: Limits in the Size	of the Major Cap	osid Protein," <i>J.</i>
1	AT	<u>8</u>	Jiang, X., e American	nt al., "Norwalk also for the second	Virus Genome Cloning and the Advancement of Science	Characterization," Sci	ience 250:1580-1	583 (1990),
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	AS	Kratz, P. A., et al., "Native display of complete foreign protein domains on the surface of hepatitis B virus capsids," <i>Proc. Natl. Acad. Sci. USA 96</i> :1915-1920 (March 1999), National Academy Press							atitis B virus
V	AT	9	Landschulz Binding Pro	z, W. H., et al., oteins," Science	The Leucine Zipper: A Hypo 240:1759-1764 (1988), Am	othetical Struct nerican Associa	ure Con	nmon to a New the Advanceme	Class of DNA nt of Science
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	AS	<u>10</u>		Lee, K. H., et al., "Two-Dimensional Electrophoresis of Proteins as a Tool in the Metabolic Engineering of C Cycle Regulation," <i>Biotech. and Bioeng.</i> 50:336-340 (1996), John Wiley & Sons, Inc.					
\	AT	<u>10</u>	Liljeström, F Forest Virus	P. and Garoff, I Replicon," <i>Bi</i> c	H., "A New Generation of Ar witechnology 9:1356-1361 (nimal Cell Expression 1991), Nature Publish	Vectors Based o	on the Semliki	
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	AP11							Yes No
	101 (1		OTHER (Including Au	ithor, Title, Date, P	ertinent Pages, etc	.)	
MM 	AR	11	Liljeström, F	P., "Alphavirus e	expression systems," C	urr. Opin. Biotech. 5:495	5-500 (1994), Curi	rent Biology Ltd
	AS	<u>11</u>	carrier to eli	et al., "A recon icit a polarized i EY-VCH Verlag	Th1 immune response v	le system derived from position without adjuvant," Eur. J	parvovirus as an e l. <i>Immunol.</i> 28:140	fficient antigen 01-1407 (April
	AT	11	López, O., e X-100," FEE Societies.	et al., "Direct for 3S Lett. 426:314	mation of mixed micelle 1-318 (April 1998), Else	es in the solubilization o	f phospholipid lipo deration of Europ	somes by Triton ean Biochemical
EXAMINER		/Mar	y Mosher	/		DATE	CONSIDERED	08/14/2006
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	ATTY. DOCKET NO. 1700.0030003/JAG/BJD/SJE	APPLICATION NO. 10/733,582
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мм	AR	<u>12</u>	Lundstrom, I Biology Ltd	K., "Alphaviruse	es as expression vectors," (Curr. Opin. Bi	iotech. 8:	578-582 (Octob	er 1997), Current
	AS	12	Matsui, S. M 87:1456-146	Matsui, S. M., et al., "The Isolation and Characterization of a Norwalk Virus-specific cDNA," J. Clin. Invest. 87:1456-1461 (1991), American Society for Clinical Investigation Inc.					
	AT	<u>12</u>	Minenkova, 128:85-88 (1	O. O., <i>et al.</i> , "D 1993), Elsevier	esign of specific immunoge Science Publishers B.V.	ens using filar	mentous	phage as the ca	ırrier," Gene
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	ATTY. DOCKET NO. 1700.0030003/JAG/BJD/SJE	APPLICATION NO. 10/733,582
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INFORMATION DISCLOSURE STATEMENT	FILING DATE	ART UNIT
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	AO13	†						Yes No
	AP13			N. I				Yes
	[AFI3	<u> </u>	OTHER (Including A	uthor, Title, Date, Pert	inent Pages, etc.)	1	No
мм	AR	13	Morein, B., viruses," Na	et al., "Iscom, a ature 308:457-4	a novel structure for antigen 160 (1984), Nature Publishir	ilc presentation of mer ng Group	mbrane proteins	from enveloped
	AS	13	Neurath, A. Attached H	R., <i>et al.</i> , "Hepydrophobic Tai	patitis B Virus Surface Antig I," Mol. Immunol. 26:53-62 (en (HBsAg) As Carrier 1989), Pergamon Pres	r for Synthetic Pe ss	eptides Having An
V	AT	13	O'Shea, E. (1992), Celi		hanism of Specificity in the	Fos-Jun Oncoprotein I	Heterodimer," Ce	ell 68:699-708
EXAMINER		/Ma	y Mosher			DATE	CONSIDERED	08/14/2006
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ММ	AR	<u>14</u>	Perham, R. N Microbiol. Re Microbiologic	v. 17:25-31 (1995	ering a peptide epitope display s 5), Elsevier Science Publishers	system on filan on behalf of th	nentous bacteric e Federation of	phage," <i>FEMS</i> European
	AS	14	Petrenko, V. Oxford Unive	A., et al., "A librar	y of organic landscapes on filai	mentous phage	e," <i>Protein Eng</i> .	9:797-801 (1996),
	AT	14	basis for deve	and Grens, E., "Helopment," FEBS ochemical Societie	Hepatitis B core particles as a u Lett. 442:1-6 (January 1999), E es.	niversal displa Elsevier Scienc	y model: a struc e B.V., for Fede	ture-function ration of
EXAMINER	/	/Mary	Mosher/			DATE	CONSIDERED	08/14/2006
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	AM15							Yes No
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мм	AR	<u>15</u>	Raychaudhui Biotechnol. 1	ri, S. and Rock, I 6:1025-1031 (No	K. L., "Fully mobilizing host defer ovember 1998), Nature America	nse: Building b Inc.	etter vaccines,"	Nature
	AS	<u>15</u>			inated Vaccinia in a Military Rec 6:673-676 (1987), Massachusett			ency Virus (HIV)
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M	IM	AR	16			Pparadigm ," Immunol. Today 1			1997), Elsevie	r-Science Ltd
		AS	<u>16</u>	Schlesinger, Elsevier Scie	S., Alphaviruses ince Publishers L	- vectors for the expression of td. (UK).	f heterologe	ous ge	nes," TIBTECH	l 11:18-22 (1993),
	/	AT	<u>16</u>	exogenous a	al., "Recombinar ntigen to elicit pro National Academy	nt parvovirus-like particles as a otective antiviral cyctotoxic T c y of Sciences	an antigen ælis," <i>Proc</i>	carrier :. Natl	: A novel nonre Acad. Sci. USA	plicative 94:7503-7508
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	AL17							Yes No
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	AP17							Yes No
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ММ	AR	<u>17</u>	Shen, L., et a 252:440-443	il., "Recombinant (1991), Americar	Virus Vaccine-Induced SIV-Sp Association for the Advancem	ecific CD8+ Cy ent of Science	ytotoxic T Lymph	ocytes," <i>Science</i>
	AS	17	Stollar, V., "T Schlesinger,	ogaviruses in Cui R. W. (ed.), Acad	tured Arthropod Cells," in <i>The</i> emic Press, New York, NY, pp.	Togaviruses: E 612-615 (198	Biology, Structure 0)	, Replication,
1	AT	17	Strauss, J. H. Microbiol. Re	. and Strauss, E. v. 58:491-562 (19	G., "The Alphaviruses: Gene E 194), American Society for Micr	xpression, Repoblology	olication, and Evo	olution,"
EXAMINER		/Mar	y Mosher/			DATE	CONSIDERED	08/14/2006

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	SLATION Yes
AL18	No Yes
AM18	No Yes
AN18	No Yes
AO18	No Yes
AP18 OTHER (Including Author, Title, Date, Pertinent Pages, etc.)	No
Tanimori, H., et al., "Enzyme Immunoassay of Neocarzinostatin Using 3-Galactosidase as Label," J. Dyn. 4:812-819 (1981), Blackwell Publishing, Inc.	Pharm.
AS Topchieva, I. and Karezin, K., "Self-Assembled Supramolecular Micellar Structures Based on Non-io Surfactants and Cyclodextrins," <i>J. Colloid Interface Sci. 213</i> :29-35 (May 1999), Academic Press	nic
Townsend, A. and Bodmer, H., "Antigen Recognition by Class I-Restricted T Lymphocytes," Ann. Relation 18 Immunol. 7:601-624 (1989), Annual Reviews Inc.	
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1	MM 	AR	<u>19</u>	Twomey, T., vaccines," Va	et al., "Structure a accine 13:1603-16	and immunogenicity of experime \$10 (1995), Elsevier Science Ltd	ntal foot-and	l-mouth disease a	nd poliomyelitis	
		AS	<u>19</u>	Ulrich, R., et a 50:141-182 (Urich, R., et al., "Core Particles of Hepatitis B Virus as Carrier for Foreign Epitopes," Adv. in Virus Res. 0:141-182 (January 1998), Academic Press					
	/	VanCott, T. C., et al., "Antibodies with Specificity to Native gp120 and Neutralization Activity against Primary Human Immunodeficiency Virus Type 1 Isolates Elicited by Immunization with Oligomeric gp160," J. Virol. 71:4319-4330 (June 1997), American Society for Microbiology					against Primary 160," <i>J. Virol</i> .			
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мм	AR	<u>20</u>	Warnes, A.,	et al., "Expressi	on of the measles virus r " Gene 160:173-178 (19	nucleoprotein gene in	Escherichia coli a	nd assembly of
	AS	<u>20</u>	recombinant		determination of the inta poletin expressed in Chir ess			
V	AT	<u>20</u>	Xiong, C., e Science 243	<i>t al.</i> , "Sindbis Vir 1:1188-1191 (198	us: An Efficient, Broad F 39), The American Assoc	lost Range Vector for ciation for the Advance	Gene Expression ement of Science	in Animal Cells,"
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MM	AR	<u>21</u>	Zang, M., et Cell Culture	al., "Production Medium," <i>Bio</i>	on of Recombinant Proteins technology 13:389-392 (19	s in Chinese Hamster (995), Nature Publishin	Ovary Cells Using GCompany	g a Protein-Free
	AS	<u>21</u>	Invitrogen M 2002)	Invitrogen Manual, "Sindbis Expression System Version E," Catalog No. K750-01, Life Technologies (April 2002)				
V	AT	21	Boorsma, M 18:429-432	., et al., "A ter (April 2000), N	nperature-regulated replico lature America Inc.	n-based DNA express	ion system," <i>Nati</i>	ure Biotechnol.
EXAMINER		/Mar	y Mosher/			DATE	CONSIDERED	09/14/2006
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	AP22	<u> </u>	OTHER (ncluding Auth	 or, Title, Date, Pertinen	t Pages etc.)	<u> </u>	No.
мм	AR	22	Esposito, G. antigen pepti synthetic imr	, et al., "Conformation to the conformation of	ational study of a short <i>Pertus</i> D and two-dimensional NMR. J. Biochem. 217:171-187 (199	sis toxin T cell e	pitope incorporat structural effects	on the activity of
	AS	<u>22</u>	Frolov, I., et USA 93:1137	Frolov, I., et al., "Alphavirus-based expression vectors: Strategies and applications," <i>Proc. Natl. Acad. Sci. USA 93</i> :11371-11377 (1996), National Academy Press				
V	AT	Ebina, S., et al., "Chemical Modification of Bovine Pancreatic Trypsin Inhibitor for Single Site Coupling of Immunogenic Peptides for NMR Conformational Analysis," J. Biol. Chem. 264:7882-7888, American Society for Biochemistry and Molecular Biology, Inc. (1989).						
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	AO23						46	No Yes
	AP23		OTHER (I	ncluding Auth	or, Title, Date, Pertinent F	Pages, etc	_ .)	No
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мм 	AR	<u>24</u>	Willis, A.E., bacteriopha	<i>et al.</i> , "Immunolog ge," Gene 128:79	gical properties of foreign peptid -83, Elsevier Science Publisher	les in multiple s B.V. (1993).	display on a filan	nentous
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